

SR3610 Series
User Manual

Forewords

About this manual

Thank you for using products from Raidon Technology Inc.

This manual will introduce the STARDOM SR3610 Series product. Before using STARDOM SR3610 Series, you are advised to read this manual first. All information contained in this manual has been carefully confirmed before printing, but the actual product specifications shall be in accordance with those at the time of delivery; any update to product specifications or relevant information may be found on www.stardom.com.tw, and no separate notification will be made.

If you have any query regarding the products of Raidon Technology, or you would like the latest product information, please contact us at techsupport@stardom.com.tw, and we shall give you a reply as soon as possible.

Note : Raidon Technology will only provide technical support and services on products purchased directly from the company. General consumers and third-party buyers who did not purchase from the company should contact their distributor or supplier directly to receive faster support and response. If you did not purchase products directly from our company, please avoid contacting our company directly because your support and response may be delayed to your satisfaction.

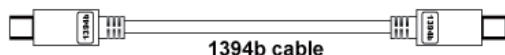
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SR3610 Series Quick Installation Guide

1. Package Contents

After opening the box, you should find the following items:

- SR3610 product unit (includes two removable hard disk trays)
- AC Power Cable
- RS232 Cable
- USB Cable (included in the SR3610-2S-B2, SR3610-2S-SB2 and SR3610-2S-WBC models)
- eSATA Cable (included in SR3610-2S-SB2 only)
- 1394B Cable (included in SR3610-2S-WBC only)
- CD (contains product specifications, user manuals and management software)
- User Manual
- Accessories Bag



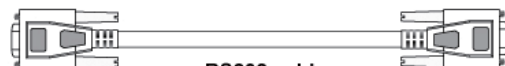
1394b cable



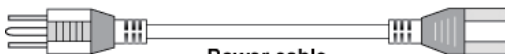
eSATA cable



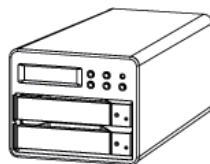
USB cable



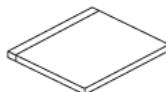
RS232 cable



Power cable



SR3610



CD



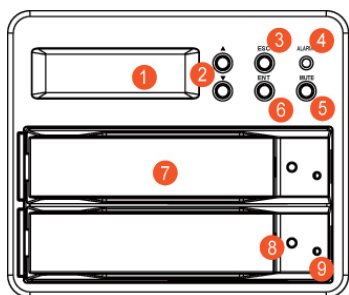
Accessories bag



**Removable
Tray Module**

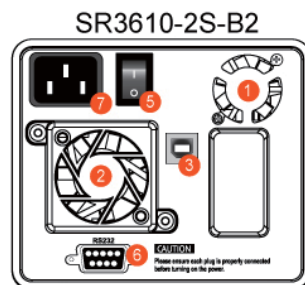
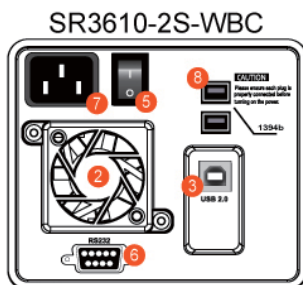
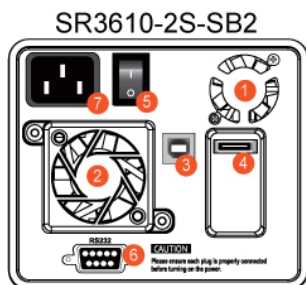
Should any of the above accessories be missing or the main unit is damaged prior to initial use, please contact your distributor or supplier.

Front View



- | | |
|---------------------|-------------------------|
| 1 LCD Display Panel | 2 Select Buttons |
| 3 ESC Button | 4 Alarm LED |
| 5 Mute Button | 6 Enter Button |
| 7 Tray Handle | 8 Key Insertion Opening |
| 9 Access LED | |

Rear View

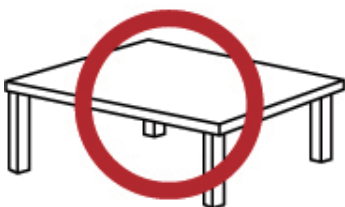


- | | | | |
|----------------|--------------|----------------|--------------|
| 1 3cm Fan | 2 4cm Fan | 3 USB 2.0 Port | 4 eSATA Port |
| 5 Power Switch | 6 RS232 Port | 7 Power Socket | 8 1394b Port |

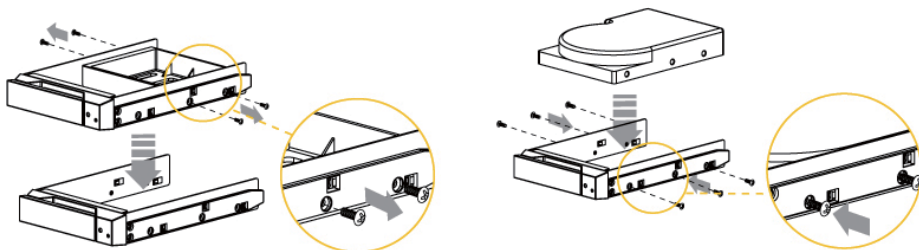
2. Hardware Installation

Please follow the steps below to complete installation of the SR3610 hardware.

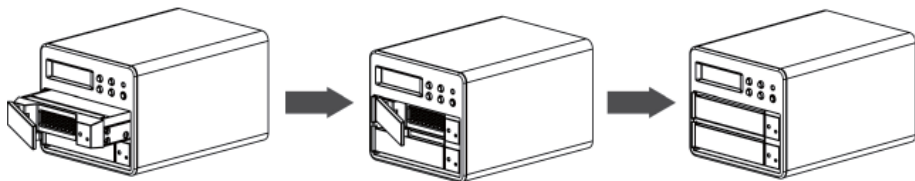
Step 1 Place the device on a flat and stable surface. Make sure the fan exhaust is not blocked and there is sufficient cooling space around the unit. (Please keep away from water sources or other hazardous environments that may damage the product.)



Step 2 Remove the Tray and install your hard disk onto the tray. Make sure the hard disk secure screws are fastened to avoid unnecessary movements to the hard disk.



Step 3 Once the hard disks have been installed, insert the removable trays into appropriate positions of the SR3610 unit and close the handles to secure the disks.



Step 4 Connect the cables included to the appropriate ports of the SR3610 and your PC system.

Step 5 Turn on the power of the SR3610. Wait for the LCD display to show the OK message before turning on your PC system.

PRI HDD : OK
SEC HDD : OK

Installation Complete. Your operation system will automatically identify the new hardware and once recognized, follow the operating system's instructions to format the hard disks. Once the formatting is complete the device is then ready for operation.

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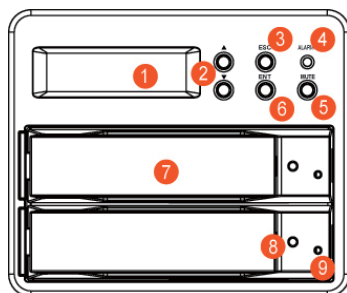
Chapter 1 Product Outline

1.1 Introduction

The STARDOM SR3610 series provides users with a cost-effective and safe external disk array sub-system.

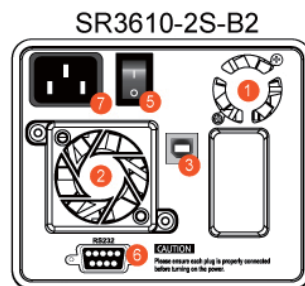
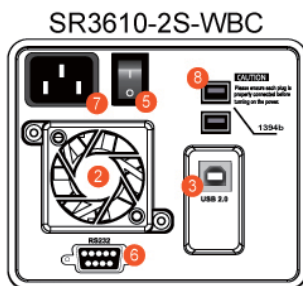
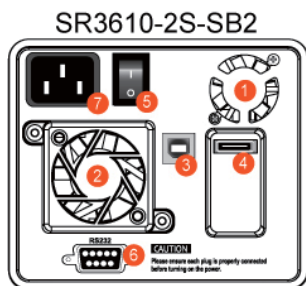
Whether you are using this product at home or in the office, its RAID1 support and mirroring function provides you with real-time data backup, enhancing data security and stability. RAID0 support is also included. By optimizing the use of storage on two separate hard disks, data transfer speed enhances though there will be no data fault tolerance.

Front View



- | | |
|---------------------|-------------------------|
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1.2 Functions and Features

The STARDOM SR3610 series is a disk array system designed to provide users with the most cost-effective solution for their storage needs. It makes the swapping of hard disks easy while also guaranteeing data security and completeness.

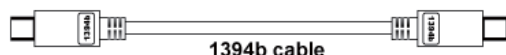
- **24 Hour Real-Time Data Backup**
Using RAID1, all data in the main hard disk can be immediately mirrored onto another hard disk, ensuring the complete backup of your data at all times.
- **Online Automatic Data Rebuild**
In RAID1 mode, once a malfunctioning hard disk has been replaced, the system will automatically rebuild the data to the new disk. No extra settings required.
- **Custom Backup Schedule to Prevent Virus Infections**
The user can define their own schedule for data backups. This may protect & delay the backup disk from virus attacks that may have already infected the primary disk.
- **LCD Status Display**
The simple to use LCD display control panel makes the RAID and backup scheduling setups easy. The fan and temperature information shown on the display also keeps users up to date on the system's status, simplifying product management.
- **Plug and Play Support**
The removable tray design allows plug and play of hard disks at any time, simplifying maintenance.
- **No Drivers Needed**
No additional drivers need to be installed. The product is compatible with Windows/Mac/Linux operating systems.
- **Hot Swapping Support**
A malfunctioning hard disk can be replaced online without having to turn off the system power.
- **GUI Monitoring Software**
The Product is provided with a Windows-based RAIDGuide GUI software. Using the RS232 port connection, the user can monitor the disk array system's status at all times. An e-mail alert can be sent if the system malfunctions to ensure complete protection.

Chapter 2 Product Installation

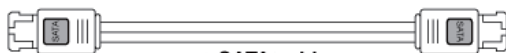
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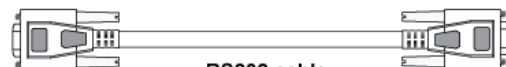
1394b cable



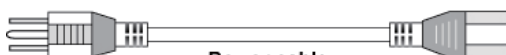
eSATA cable



USB cable



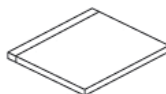
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SR3610



CD



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Removable
Tray Module

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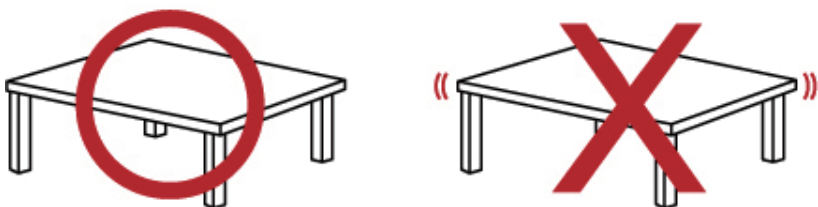
2.2 Precautions and Requirements

1. The SR3610 can be used with two hard disks that are of different models and storage capacities initially. However, for improved performance, we recommend that both disks should have the same specifications and capacity from the same manufacturer. It is also necessary that the backup drive be the same or bigger in capacity than the source drive under the RAID1 model .
2. Please ensure that the two hard disks used contain no bad tracks. This avoids system crash or data loss in the event that one hard disk malfunctions.
3. RAID0 mode offers improved data transfer performance and the full use of both hard disks as one large capacity disk. It does not offer data mirroring, however so, if one hard disk is damaged, all data will be lost.
4. We recommend that you decide whether to use the product in RAID0 or RAID1 (default value) mode before it begins initial operation. Changing the RAID mode at a later date will result in the complete loss of all data on the hard disks.

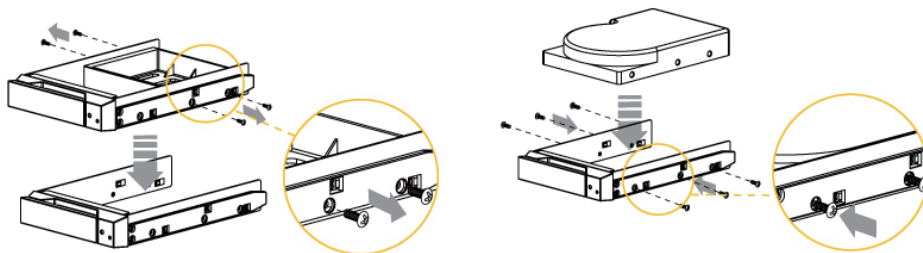
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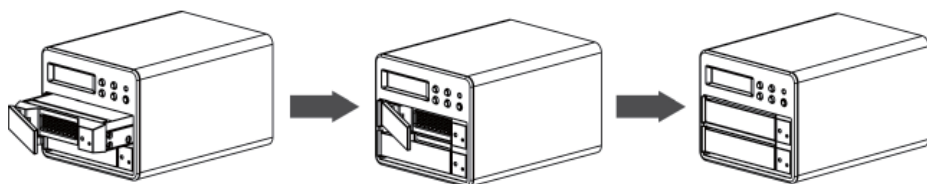
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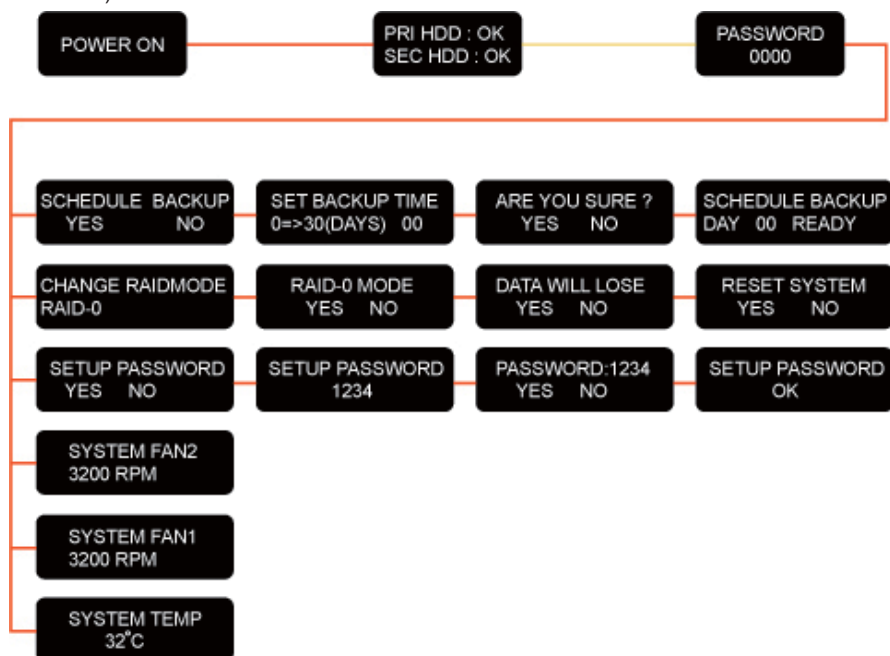
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Installation Complete. Your operation system will automatically identify the new hardware and once recognized, follow the operating system's instructions to format the hard disks. Once the formatting is complete the device is then ready for operation.

Chapter 3 Instructions

3.1 System Operating Procedure and Operation architecture

The system operating procedure and operation architecture are as follow: (Default system password: 0000)



3.2 Changing RAID Level and Scheduling

The SR3610 offers two RAID levels – RAID 0 and RAID 1. You may choose the RAID level suitable for your needs. The factory default is at RAID 1.

- !** Note : 1. Please backup all data on hard disks before changing RAID level.
2. Changing the RAID level results in loss of all data on disks.

3.2.1 Changing from RAID 1 to RAID 0 Mode

Step 1 Log into the system then use “▼” or “▲” with the LCD display to scroll through the options until “CHANGE RAIDMODE RAID-0” appears. (Default system password: 0000)

CHANGE RAIDMODE
RAID-0

Step 2 Press the “ENT” button and the screen will show the message “RAID-0 MODE YES NO”. Press the “ENT” button again to confirm.

RAID-0 MODE
YES NO

Step 3 System will show the warning “DATA WILL LOSE YES NO”. To confirm loss of data is allowed, press the “ENT” button”.

DATA WILL LOSE
YES NO

Step 4 System will show the message “RESET SYSTEM YES NO”. Press the “ENT” button to confirm.

RESET SYSTEM
YES NO

Step 5 After confirming you will hear a “Beep” sound confirming that the system has been changed to the RAID mode as directed.

※To change from RAID 0 to RAID 1 mode, at Step 1 go to the “RAID-1 MODE YES NO” option before pressing the “ENT” button instead. Follow the remaining steps to change the RAID mode.

3.2.2 Schedule Backup Settings

When the user uses RAID 1 mode for backups, since both hard disks are being mirrored online at the same time, the backup data may contain viruses. To avoid this problem, the Schedule Backup function provided by the SR3610 allows the user to define a backup interval of multiple days. At the scheduled intervals the RAID will back up the data from the Primary Disk to the Secondary Disk. This means the data in the disk array system does not have to be mirrored constantly at all times. This approach also saves system processing time, making data backup more efficient and effective.

Instructions:

The user can specify a certain number of days (1~30 days) and at the appropriate times the system will automatically back up the data.

Step 1 Log into the system then use “▼” or “▲” with the LCD display to scroll through the options until “SCHEDULE BACKUP YES NO” appears. (Default system password: 0000)

SCHEDULE BACKUP
YES NO

Step 2 After pressing the "ENT" button the display will show "SCHEDULE BACKUP TIME 0=>30 (DAYS) 00". Use the "▼" or "▲" buttons to adjust to the number of days between backups. Once the backup time has been set please press the "ENT" button.

SET BACKUP TIME
0=>30(DAYS) 00

Step 3 System will now ask you to confirm the settings. Press the "ENT" button to confirm.

ARE YOU SURE ?
YES NO

Step 4 The system will now show that the settings have been recorded.

SCHEDULE BACKUP
DAY 00 READY

If DAY is set to "00" then the device will operate in RAID 1 mode with constant mirroring at all times.



- Note :
1. If Schedule Backup is used, since hard disk data is not backed up simultaneously, if a hard disk malfunctions then all new data since the last backup will be lost. Before using this function, we recommend that you consider carefully the use of RAID 1 Mode or Schedule Backup as well as the backup interval length.
 2. Scheduled Backup does not store data from other hard disks to the RAID. It only copies all data from the RAID's primary disk to the secondary disk.
 3. To cancel the Schedule Backup function, set the days to "00". The system will revert to the RAID 1 mode.

3.3 Change Password Setting

To prevent unauthorized system settings, the SR3610 incorporates a password feature to help administrators protect their data. Be sure to record the new password somewhere safe after making a change. Losing the password will cause a great inconvenience to the user.

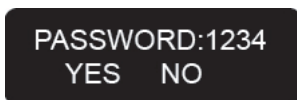
Step 1 Log into the system then use "▼" or "▲" with the LCD display to scroll through the options until "SETUP PASSWORD YES NO" appears. (Default system password: 0000)

SETUP PASSWORD
YES NO

Step 2 After pressing the "ENT" button please use the "▼" or "▲" buttons to adjust and set the 1st, 2nd, 3rd and 4th digit of the password.

SETUP PASSWORD
1234

Step 3 Once you have made the change, please press the “ENT” button. The following message will be shown “PASSWORD:XXXX YES NO”.




Step 4 Please press the “ENT” button again. The message “SETUP PASSWORD OK” will be shown, indicating that you have successfully set a new password.

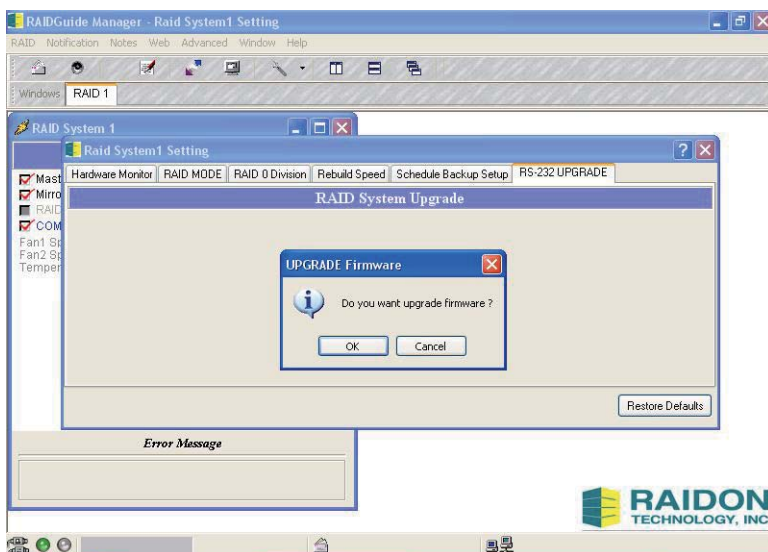


3.4 Firmware Update

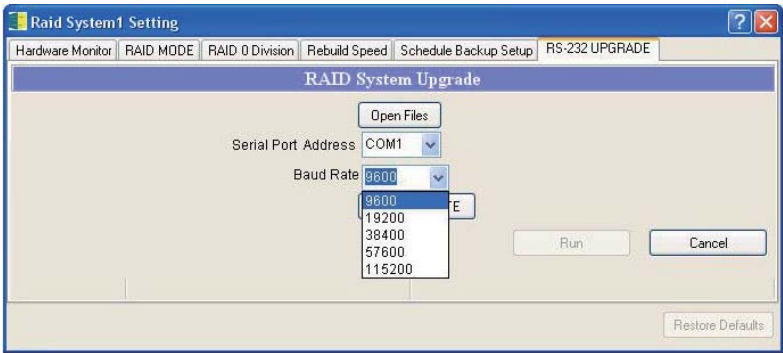
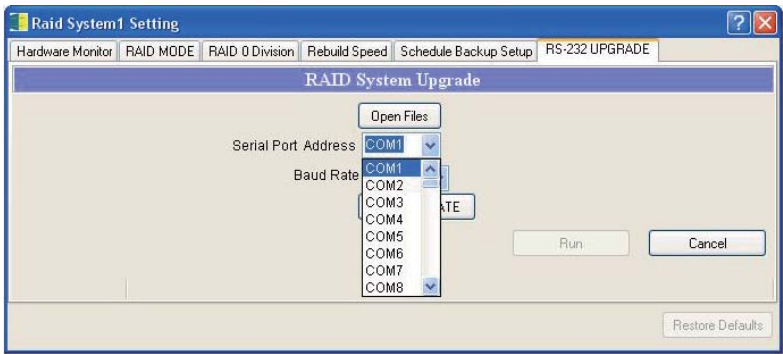
You can update firmware through the RAIDGuide software via RS232 connection. Insert the CD, click on "Management Software" and then click "RAIDGuide 1.28.1.14" to begin installation or open the "RAIDGuide v1.28.1.14" file in the "Management Software" file and click "setup.exe" to begin installation.

-  Note :
1. If your hardware is functioning normally, it is recommended not to try and update the firmware to avoid any incompatibility from occurring which may result in data loss!
 2. When updating firmware becomes necessary, please be sure to backup all information on the HDDs to avoid possible accident(s) during the update, which may result in data loss!

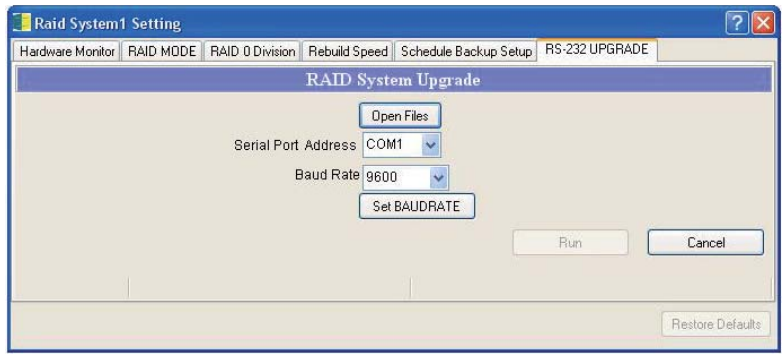
Run RAIDGuide GUI and open the window, select RAID System 1 Setting under “Advanced” in the tool bar above, and the Setting window will appear. Click the RS232 UPGRADE button. The system will pop up the following window and prompt “Do you want upgrade firmware?”, click “OK” to start updating Firmware.

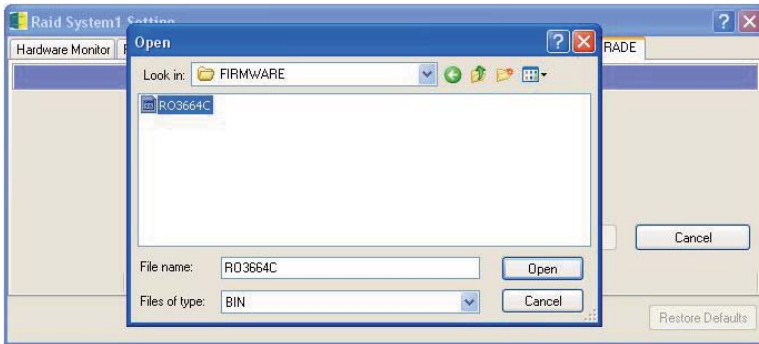


Select Serial port address: COM1 and Baud Rate: 9600

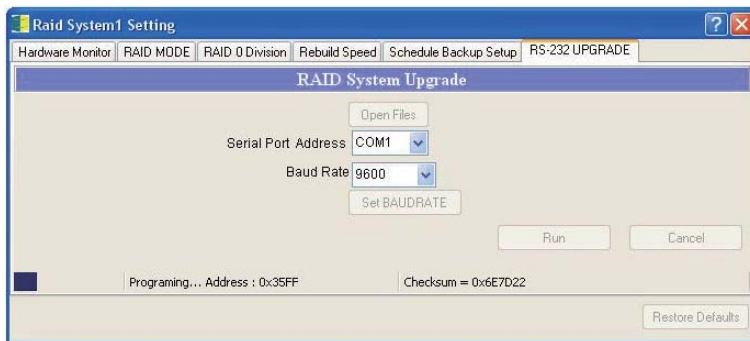


Click “Open Files” button to locate, then open the Firmware update file.





Specify the correct Firmware update file, and click “Run”, then the system will begin updating firmware with the following message “Verifying...Address:xxxx”.



When update is complete, the system will show a message advising successful upgrade.

Memo

